Ministry of Natural Resources
Ontario

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

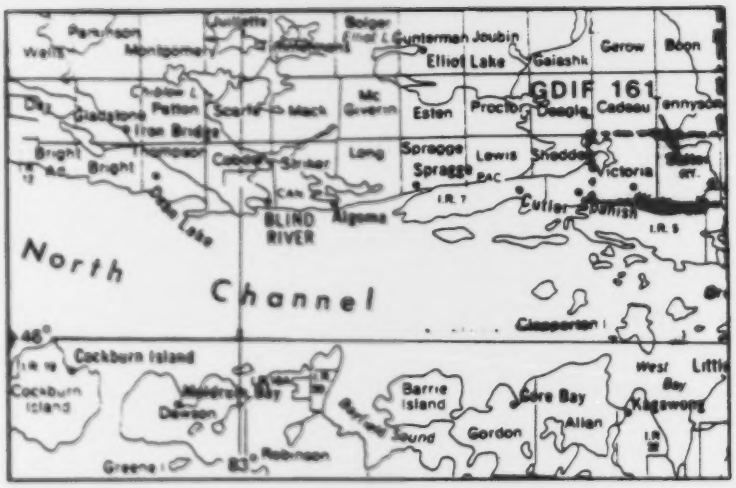
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 161

SALTER TOWNSHIP

DISTRICT OF SUDBURY

Compiled by the Staff of
the Resident Geologist's Office
Sudbury



LOCATION MAP

Scale 1:1 013 760 or 1 inch to 16 miles

85-6464/

NTS Number 41 J/1, 41 J/8

Mining Claim Map Number M1087

This project was funded by the Ontario Ministry of Northern Affairs through the Northern Ontario Geological Survey (NOGS) Program.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario geological Survey
1984: Salter Township, Sudbury District; Ontario Geological Survey, Geological Data Inventory Folio 161, compiled by the staff of the Resident Geologist's office, Sudbury, 24 p. and 2 maps.

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Date	Page Revised	Revised by

Date	Page Revised	Revised by

SALTER TOWNSHIP

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ACCOMPANYING MAPS

Property Location Map - 1 map

Exploration Data Map - 1 map

Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	**20.116 8**	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
		AREA			
1 cm²	0.155 0	square inches	1 square inch	**6.451 6**	cm²
1 m²	10.763 9	square feet	1 square foot	**0.092 903 04**	m²
1 km²	0.386 10	square miles	1 square mile	**2.589 988**	km²
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm³	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm³
1 m³	35.314 7	cubic feet	1 cubic foot	**0.028 316 85**	m³
1 m³	1.308 0	cubic yards	1 cubic yard	0.764 555	m³
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
		MASS			
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.048 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 048 908 8**	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1 714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20 0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	R.A.
2	Assessment Files Research Office, Toronto	N.A.	R.A.
3	ODM General Index; 8 volumes	Yes	R.A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	R.A.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	R.A.
6	ODM Industrial Mineral Reports	No	R.A.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	R.A.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	R.A.
9	Newspaper Clippings File	Yes	R.A.
10	GSC Index to Publications	Yes	R.A.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	R.A.
12	OGS Index Maps	Yes	R.A.
13	Source Mineral Deposit Records (O.G.S.) Mineral Occurrences File	Yes	R.A.
14	Author - Subject Articles File	Yes	R.A.
15	Miscellaneous Papers: ODM & OGS	Yes	R.A.
16	ODM Geological Circulars: OGS Study Series, Reports	Yes	R.A.
17	ODM Preliminary Reports: ODM Bulletins	Yes	R.A.
18	ODM – OGS Open File Reports	Yes	R.A.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	R.A.
20	OGS Aggregate Resources Inventory Papers	No	R.A.
21	OGS Mineral Potential Maps	Yes	R.A.
22	Theses on File, Sudbury	Yes	R.A.
23	Aerial Photographs on File, Sudbury	Yes	R.A.

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . .Anhydrite
△ ank. . . . . .Ankerite
△ anna . . . . . Annabergite
△ ap. . . . . .Apatite
△ arg . . . . . Argentite
△ As . . . . . .Arsenic
△ asp . . . . . .Arsenopyrite
△ asb . . . . . .Asbestos
△ ba. . . . . .Barite
△ be. . . . . .Beryl
△ Bi. . . . . .Bismuth
▲ bn . . . . . .Bornite
△ bran . . . . . .Brannerite
△ bruc . . . . . .Brucite
△ Cd . . . . . Cadmium
△ calc. . . . . Calcite
△ carb . . . . . .Carbonate
△ cel . . . . . .Celestite
△ cc. . . . . .Chalcocite
▲ cp. . . . . .Chalcopyrite
△ ch. . . . . .Chert
△ clay . . . . . .Clay
△ Co . . . . . Cobalt
△ cob. . . . . Cobaltite
△ cb. . . . . .Columbite
▲ Cu . . . . . .Copper
△ cor . . . . . Corundum
△ dol . . . . . Dolomite
△ ep. . . . . Epidote
△ ery . . . . . Erythrite
△ fel . . . . . Feldspar
△ fl . . . . . .Fluorite (fluorspar)
△ fu. . . . . .Fuchsite
▲ gn. . . . . Galena
△ gt. . . . . Garnet
△ goe . . . . . .Goethite
▲ Au . . . . . Gold
△ gf. . . . . .Graphite
△ gl . . . . . Gravel
△ gyp. . . . . .Gypsum
△ hem . . . . . Hematite
△ il . . . . . Ilmenite
△ Fe . . . . . .Iron
△ IF. . . . . Iron Formation
△ jas . . . . . Jasper
△ kaol . . . . . .Kaolinite (kaolin)
△ ky . . . . . Kyanite
△ Pb . . . . . Lead
△ lim . . . . . Limonite
△ Li. . . . . Lithium
△ mgst . . . . . Magnesite
△ mag . . . . . Magnetite
△ mc . . . . . Malachite
△ Mn . . . . . Manganese
△ mb . . . . . Marble
△ mar. . . . . Marcasite
△ ma . . . . . .Marl
△ mi . . . . . Mica
△ ml . . . . . Millerite
△ mo . . . . . Molybdenite
△ Mo . . . . . .Molybdenum
△ mon . . . . . Monazite
△ ne. . . . . Nephelite (nepheline)
△ nc. . . . . .Niccolite
▲ Ni. . . . . Nickel
△ Nb . . . . . .Niobium
△ Pd . . . . . .Palladium
△ peat . . . . . .Peat
△ pent . . . . . .Pentlandite
△ Pt. . . . . .Platinum
▲ py . . . . . .Pyrite
△ pyl . . . . . Pyrochlore
△ pyrl . . . . . .Pyrolusite
▲ po . . . . . .Pyrrhotite
△ q . . . . . Quartz
△ qcv. . . . . Quartz carbonate vein
△ ra. . . . . .Radioactive minerals
△ RE . . . . . .Rare Earths
△ sd. . . . . Sand
△ sgl . . . . . Sand and gravel
△ ss . . . . . .Sandstone
△ scap . . . . . Scapolite
△ shee . . . . . .Scheelite
△ serp . . . . . Serpentine
△ sh. . . . . Shale
△ sid . . . . . Siderite
△ si . . . . . Silica
▲ Ag . . . . . .Silver
△ sl . . . . . Slate
△ sm . . . . . .Smaltite
△ sod. . . . . Sodalite
△ spec . . . . . Specularite
△ sp. . . . . .Sphalerite
△ spd. . . . . .Spodumene
△ staur . . . . . .Staurolite
△ stib. . . . . Stibnite
△ st . . . . . .Stone
△ talc. . . . . .Talc
△ Te . . . . . Tellurium
△ td. . . . . Tetrahedrite
△ th. . . . . .Thorite
△ Th . . . . . .Thorium
△ thuc . . . . . Thucholite
△ ti . . . . . Titanite
△ Ti. . . . . Titanium
△ tour . . . . . .Tourmaline
△ trap . . . . . .Trap rock
△ W. . . . . Tungsten
△ uran . . . . . Uraninite
△ U . . . . . .Uranium
△ verm . . . . . .Vermiculite
△ Y . . . . . Yttrium
△ Zn . . . . . .Zinc
△ zr. . . . . Zircon
▲ s Sulphide

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

SALTER TOWNSHIP

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Bishop Property (Carlyle, R. W.)	cp	-	-	GR136, p.104, File 11-B1
B	Hermina Mine, No.3 Shaft	cp	000851	MRC12, p.262	
C	Hermina, No.1 Shaft	cp	000851	MRC12, p.262	
D	Massey Mine, No.1 Shaft	cp	000857	MRC12, p.262, 263	
E	Massey Mine, No.4 Shaft	cp	000857	MRC12, p.262, 263	
F	Gutcher, J.	cp	-	-	GR136, p.104
G	Gutcher, J.	cp	-	-	GR136, p.104
H	Lacelle, W.	cp, po	-	-	GR136, p.104
I	Steinke	cp,po	-	-	GR136, p.104
J.	Babcock, G. H.	cp	-	-	Files 13-C1, 15-C1, 19-A1, 19-C1, 22
K	Dagenais, A. Tennant, T.	cp,po	-	-	Files 21-A1, 21-B1
L	Alexander, A.	cp		-	File May Tp. 11-E1
M	NW¼, Section 13	S,cp	-	-	O.D.M. Map P.378
N	Clear Lake Showing	cp,po	Cu 4	-	O.D.M. Map P.378

GDIF FORM NO. 1

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	PLANS & SECTIONS	SHAFT SINKING	PRODUCTION
1	Alexander, A.			68																
2	Babcock, G. H. (Hermina Mine)			75	71	65		67				67	67 75							
3	Carlyle, R. W. (Bishop, J., Property)				67 68															
4	Centurion Mines Ltd. (East Sullivan Mines Ltd., McVittie, Jerome & Doyon, Hermina Mine)				55 58 59	55 58 59		58				58	58							
5	Dagenais, A.			71																
6	D'Eldona Gold Mines Ltd.				56															
7	Donalda Mines Ltd., (D'Eldona Gold Mines Ltd., Sylvanite Gold Mines Ltd., McVittie, Massey Mine)	56			54 56	56		56												
8	Gutcher, L. & J. (Massey Mine)				55 56 58 67	65 66		59 65 66										?[1]		

GDIF FORM NO. 7

SALTER TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	PLANS & SECTIONS	SHAFT SINKING	PRODUCTION
COMPANY/AUTHOR (file number)																				
9	Hermina Mine (Babcock, G., North Rock Exploration Ltd., Hermina Copper Co. Ltd., Centurion Mines Ltd., Trade Horn Ltd., East Sullivan Mines Ltd., Teck Exploration Co. Ltd., Hermina Mining Co. Ltd.)						03 -09	67[6]											03[2] 05[3]	06-[4] 09
10	Hermina Copper Co. Ltd. (Massey Mine)				68 -71	68 -71	68[5] -71	67[6]												
11	Kerr-Addison Mines Ltd.	76												76						
12	Lacelle, W.				67															
13	Massey Mine (Hermina Copper Ltd., Rio Tinto Canadian Exploration Ltd., Donalda Mines Ltd., Sylvanite Gold Mines Ltd., Sable River Copper Co. Ltd., Kenyon Copper Mines Ltd., Massey Station Mining Co. Ltd., Gutcher, L. & J.)			01 -06 15 -17 69 -70	55 56 61		01 -06 07[7] 11[7] 01[10] 69 -71						61[12]						02[8] -06 15[9] -17 69[9] -70	04 -06 15[11] -16 68 -70

GDIF FORM NO. 2

SALTER TOWNSHIP 6

TYPE OF WORK		Numbers below represent the year in which the work was done, e.g., 68 for 1968.																			
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	PLANS & SECTIONS	SHAFT SINKING	PRODUCTION
14	North Rock Explorations Ltd. (Arrowsmith, W. C., Hermina Mine)											71[13]	71[13]							
15	Prosco Ltd.	57						57				57	57							
16	Rio Tinto Canadian Exploration Ltd. (Massey Mine)				61[12]								61[12]							
17	Sylvanite Gold Mines Ltd. (Massey Mine)				55[12]	54														
18	Shunk, R. A.					77						77 78	77 78	77						
19	Teck Exploration Co. Ltd. (Hermina Mine)				51															
20	Tennant, T.			74																

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done.e.g., 68 for 1968	GEOLOGICAL	GEOCHEMICAL	TRENCHING STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	PLANS & SECTIONS	SHAFT SINKING	PRODUCTION
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY	COMPANY/AUTHOR (file number)																				
		1 Massey Mine																			
		2 No.1 Shaft																			
		3 No.3 Shaft																			
		4 13,134 Tons, 3.6% Cu																			
		5 Includes No.4 Shaft Deepening																			
		6 Reports on Rock Mechanics & Bacterial Leaching																			
		7 Dewatered																			
		8 Nos.1,2, & 3 Shafts																			
		9 No.4 Shaft																			
		10 Adit, 120'																			
		11 From No.4 Shaft																			
		12 No Data																			
		13 No Anomaly																			

GDIF FORM NO. 7

SALTER TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
1	Babcock, G. H.	36	1971	S10W	45	37	231	py	-
2	Carlyle, R. W.	1	1967	N60E	45	0	101.2	cp	-
2a		2	1967	090	60	0	100.2	cp	-
2b		3	1967	S20W	52	0	100.6	cp	-
2c		4	1967	S60W	73	0	101	cp	-
2d		5	1967	N60W	No	Data			
2e		6	1968	S20W	45	0	68.3	cp	-
2f		6	1968?	S73W	No	Data		-	
2g		7	1968	N80W	55	0	103.3	-	-
2h		9	1968	S30E	60	0	53	-	-
3	Centurion Mines	1	1958	S42W	45	27	77	py	-
3a		2	1958	N82E	45	27	115	cp,py	Cu,Au,Ag
3b		3	1958	S36W	43	5	159	py,cp,bn	Cu,Au,Ag
3c		4	1958	S76W	33	5	173	py,cp	Cu,Au,Ag
3d		11	1959	N31E	60	6	280	py,cp	Cu,Au,Ag
4		5	1958	S42W	40	3	248	py,cp	Cu,Au,Ag
4a		6	1959	N52E	45	6	260.5	cp	Cu,Au,Ag
5		7	1959	S67W	45	10	151	py,cp,po	Cu,Au,Ag
5a		8	1959	S12W	45	10	149	cp	Cu,Au,Ag
5b		9	1959	S52W	60	37	37	No Log	
5c		10	1959	N61E	54	4	302	py,cp	Cu,Au
6		HE1	1955	S25W	50	15	720	py,cp,po	-
6a	East Sullivan Mines	HE2	1955	S25W	45	50	356	py,cp,po	-
6b		HE3	1955	S44W	45	32	248.5	py,cp	-
6c		HE4	1955	N14E	50	34	630	py,cp	-
6d		HE5	1955	S42W	45	0	354	py,cp,po	Cu,Au,Ag
6e		HE6	1955	S43W	45	2	298	py,cp	Cu,Au,Ag
6f		HE7	1955	S25W	50	29	584	py,cp	Cu,Au,Ag
7		HE8	1955	S59W	45	20	312.6	py,cp,gn	Cu,Au,Ag
8	D'Eldona Gold Mines	B1	1956	N	45	0	62.2	-	-
8a		B2	1956	S	60	0	54.3	-	-
8b		B3	1956	S	60	0	52	cp,gn	-

GDI FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
9	D'Eldona Gold Mines	M3	1956	S	45	17	324	py,cp	-
10	Sylvanite Gold Mines	1	1954	S	40	0	155	S	-
11	D'Eldona Gold Mines	1	1956	N50W	30	2	234	-	-
11a		B	1956	N30E	45	5.6	353	-	-
12	Donalda Mines	M4	1956	N8W	29	1	203	py,cp	Cu
12a		M5	1956	S20W	45	5	175	cp	Cu,Au
12b		M6	1956	S21W	45	5	116	cp	Cu,Au
12c		M7	1956	S19W	44	11	195	cp	Cu
12d		M8	1956	S15W	47	7	125	cp	Cu
12e		M9	1956	S15W	45	4	195	py,cp	Cu
12f		M10	1956	S13E	45	4	203	py,cp	-
12g		M11	1956	S20W	45	6	200	py,cp	Cu
12h		M12	1956	S21W	45	5	223	cp,py	Cu,Au
12i		M13	1956	S14W	41	11	275	cp,bn	Cu
12j		M14	1956	N11E	50	36	585	cp	Cu,Ni
12k		M15	1956	N18E	54	8	550	cp,py	Cu
13		M25	1956	S	45	19	582	cp	Cu
14		M17	1956	No	Log				Cu
14a		M19	1956	No	Log				Cu
14b		M21	1956	No	Log				Cu
14c		M22	S	No	Data				
14d		M24	S	No	Data				
15		M26	1956	S	45	No Log			Cu
15a		M27	1956	S	60	No Log			Cu
15b		M28	1956	S	60	No Log			Cu
15c		M29	1956	S	60	No Log			Cu
15d		M20	1956	N		No Data			
15f		M23	1956	S		No Data			
16		M30	1956	S	60	No Log			Cu
17	Gutcher, J. & L.	1-S	1956	S20E	45	5	165.8	py,po,cp	-
17a		2-N	1956	N20W	33	1	141.6	py,po,cp	-
18		3-S	1956	S15W	42	5	278.5	-	-
19		4-N	1958	N3E	45	0	158.9	-	-
19a		5-S	1958	S15E	45	1	83	-	-

GDI FORM NO. 1

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted on Log	Assay Data Included for
20	Gutcher, J. & L.	M36	1967	S10E	30	1	75	-	-
21		M37	1967	N10W	60	0	119.6	py	-
21a		M38	1967	N10W	30	0	136	-	-
21b		M39	1967	S25E	40	1	121.4	-	-
21c		M40	1967	S25E	60	1	120		-
21d		M41	1967	S25E	40	8	176	py,cp	-
21e		M42	1967	N25W	40	8	120		-
22		M36	1955	S10E	42	0	250.6		-
23	Hermina Copper Co.	No Data - Total 5 Holes, 859'							
24		No Data - 1 Hole, 69'							
25	Lacelle, W.	4E	1967	-	90	0	27.5	cp	Au
25a		7E	1967	SW	48	0	71.5	cp	-
26		5W	1967	S	45	0	117	gn	-
26a		6	1967	S	40		106	cp,po,gn	
27	Rio Tinto Canadian Exploration	1 Hole	1955	No Data					-
28	Teck	T1	1951	S42-30W	45	11	472	-	-
28a		T2	1951	S39W	40	38	122	cp	

SALTER TOWNSHIP

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing

GDIF FORM NO. 4

12 SALTER TOWNSHIP

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

SALTER TOWNSHIP

GDIF FORM NO. 6

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

Donalda Mines

Northern Miner - before June 17, 1971

Flint Rock Mines

Northern Miner June 17, 1971

Min-Ore Mines

Northern Miner Oct.27, 1966
Nov.23, 1967

New Athena Mines

Northern Miner Nov.17, 1966

North Rock Exploration, Flint Rock Mines

Northern Miner June 17, 1971

Zenmac Metal Mines

Northern Miner July 3, 1969

ODM GENERAL INDEX SEARCH

Words searched:

ALDONA MINES
ALEXANDER, O.
ARROWSMITH, W.C.
BABCOCK, G. H.
BISHOP PROPERTY
CARLYLE, R.W.
CENTURION MINES
DAGENAIS, A.
D'ELDONA GOLD MINES
EAST SULLIVAN MINES
FLINT ROCK MINES
GUTCHER, J. & L.
HERMINA COPPER
HERMINA COPPER
HERMINA MINE
HERMINA MINING CO.
KERR-ADDISON MINES
LASCELLE PROPERTY
MASSEY COPPER MINE
MASSEY STATION

Index Volume	Listing:	Report Volume	Part	Page
8	ALEXANDER DEPOSIT, May Tp., Sudbury Dist.			
	mining property, report on	MP60		173,176
		MRC9		79
8	BABCOCK, G., Salter Tp., Sudbury Dist.			
	report on Hermina Mine	MP24		29
8	HERMINA COPPER LTD.			
	Salter Tp., Sudbury Dist.			
	mining property, report on	78		90
8	HERMINA MINE			
	Salter Tp., Sudbury, Dist.	GB4		144
		MP24		29
		MP34		23
		MRC12		262
		PR66-1		32
1	HERMINA COPPER MINE, Salter tp.			
	Capital and date of charter	13	1	37
	Copper, average contents	15	1	12
	Map showing location of	22	1	156
	Notes, mining and geological	22	1	159,160
	Producing (1906)	16	1	15
	(1907)	17		21
	(1908)	18	1	25
	(1909)	19	1	29
	(1910)	20	1	28
	Railway to	22	1	155
	Sulphide deposits	14	1	11
	Work at (1903)	13	1	79
	(1904)	14	1	61,62
	(1905)	15	1	68
	(1906), and photos	16	1	68,69
	(1907)	17		79
	(1908)	18	1	89
	(1909)	19	1	87
3	HERMINA COPPER MINE, Salter tp.			
	Geology; notes, photo, and sketch map	38	7	30,31
7	HERMINA COPPER MINE, Salter twp.			
	Report on (1954)	MRC1		52
	(1957)	MRC2		92

ODM GENERAL INDEX SEARCH

Words searched:

MASSEY STATION MINING CO.
MAYFAIR MINES
SABLE RIVER COPPER CO.
SALTER TP.
SHUNK, R. A.
STEINKE, PROPERTY
SYLVANITE GOLD MINES
TECK EXPLORATION
TENNANT, T.

Index Volume	Listing:	Report Volume	Part	Page
2	KENYON COPPER MINES, LTD.			
	(formerly Sable River Copper Co.)			
	Copper mg., Massey	27	1	24
	Capital and date of charter	26		58
	Officers	26		88
3	KENYON Copper Mining Co.			
	Massey cu.m. owned by	38	7	28
1	MASSEY COPPER MINE			
	Massey - See also Sable River Copper Co.	13	1	58
	Accidents	11		56,57
		15	1	31-33
	Area	12		98
	Concentrating plant	14	1	11,44
	oil flotation process	25	1	12,79
	unsuccessful	22	1	155
	Developments satisfactory (1900)	10		113
	Geology of vicinity, paper by Coleman	21	1	155-160
	Leased to Sable River Copper Co.	25	1	79
	Map of vicinity	22	1	156
	Mining class at	13	1	51
		14	1	41
	Notes by Coleman	22	1	159,160
	Ores treated at Copper Cliff	10		126
	treated at Victoria Mines	14	1	72
	value	10		118
	Photos	13	1	96,97
		14	1	61
	Production (1915)	25	1	14
	Rocks	22	1	155-159
		23	1	225
	Sulphide deposits	14	1	11
	Work at (1900)	10		120
	(1901)	11		267
	(1902)	12		97,98
	(1903)	13	1	78,79
	(1904)	14	1	60,61
	(1905)	15	1	67
	(1906)	11	1	68
	(1915)	25	1	79
2	MASSEY COPPER MINE, MASSEY			
	Operated by Sable River Copper Mg. Co.	26		88

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
3	MASSEY COPPER MINE, Salter tp.			
	Report, photo, and sketch map	38	7	28-30
7	MASSEY COPPER MINE, Salter twp.			
	Report on (1954)	MRC1		55
	See also Donalda Mines Ltd.			
8	MASSEY MINE, Salter Tp., Sudbury Dist.	GB4		144
		MRC12		262,263
		PR66-1		32
1	MASSEY STATION, Salter tp.			
	See also Massey copper mine			
	Agricultural land near	4		103
	Copper near	10		37
	Diabase (?) near, description	12		107
	Mining agency report:			
	(1900)	10		146,147
	(1901)	11		81,82
	Saugeen clay near	15	2	22
2	MASSEY, Salter tp.			
	Copper. See also Sable River Copper Mining Co.			
	Geology along the tote road from	34	4	38
	Prospectors' classes	34	1	171-173
3	MASSEY, Salter tp.			
	Glacial deposits	3	7	38
	Prospectors' classes	38	1	68
8	MASSEY AREA, SUDBURY DIST.			
	see also Massey-Cutler Area, Algoma & Sudbury Dist.			
	Massey-Spanish Area, Algoma & Sudbury Dist.			
	summary of field work, 1966, by J. A. Robertson	MP11		43-45
8	MASSEY-CUTLER AREA, ALGOMA & SUDBURY DIST.			
	geology	MP45		11,12
8	MASSEY-SPANISH AREA, ALGOMA & SUDBURY DIST.			
	summary of field work, 1966, by J. A. Robertson	PR66-1		30-33

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
3	MASSEY STATION MINING CO. LTD.			
	Operating Massey cu.m.	38	7	28
1	SABLE RIVER COPPER CO.			
	Capital and date of charter	25	1	42
	Flotation process employed by	25	1	12
	Massey mine operated by	25	1	14,79
2	SABLE RIVER COPPER MINING CO.			
	Copper producing, Massey (1916)	26		22
	Massey copper m. operated by	26		88
	See also Kenyon Copper Mines Ltd.			
1	SALTER TP.	14	1	63
	Agricultural land	4		103
	Copper	11		23
	mining	10		120
		11		81
		12		98
		13	1	79
		25	1	79
	see also Hermina mine			
	Massey Station mine			
2	SALTER TP. Alg.			
	Rocks. See sketch map, Facing	34	4	38
3	SALTER TP. Sud.			
	Copper mg			
	See Hermina cu.m.			
	Massey Cu.m.			
8	SALTER & VICTORIA TPS., Algoma & Sudbury Dist.			
	summary of field work, 1966			
	by J. A. Robertson	PR66-1		30-33
8	SALTER TP., SUDBURY DIST.			
	see also Salter & Victoria Tps.,			
	Algoma & Sudbury Dist.			
	copper	AR78		90
		AR79		72,73
		MRC12		262,263

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Card, K. D. & Lumbers, S. B.	1974,75	Sudbury-Cobalt	O.G.S. Map 2361	1"=4 miles
Giblin, P. E., Leahy, E. J. and Robertson, J. A.	1977	Blind River-Elliot Lake	O.D.M. Map P.304	1"=2 miles
		GEOPHYSICAL MAPS		
		Aeromagnetic Maps		
O.D.M.-G.S.C.	1965	Spanish	2255G	1"=1 mile
	1965	Whiskey Lake	2256G	1"=1 mile
O.D.M.-G.S.C.	1965	Sudbury, Ontario	7067G	1"=4 miles
O.G.S.-G.S.C.	1976	Uranium Reconnaissance Program Airborne Gamma Ray Spectrometer Survey. Geoph. Series. Blind River	G.S.C. O.F.R.262	
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
		Topographic Maps		
Dep't of Energy, Surveys & Mapping Branch	1975	Spanish		1:50,000
	1975	Whiskey Lake		1:50,000
Van Dine, D. F.	1979	N.O.E.G.T.S. Data Base Map, Blind River Area	O.G.S. Map 5008	1:100,000
		N.O.E.G.T.S. Blind River Area	Study 98	
		MINERAL POTENTIAL MAPS		
Springer, J.	1977	Ontario Mineral Potential, Blind River	O.G.S. Map P.1513	1:250,000

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOCHEMICAL		
		No Data Available, Mar.13, 1984		
		GEOLOGICAL REPORTS AND MAPS		
Card, K. D. , Innes, D.G. and Debicki, R. L.	1974	Stratigraphy, Sedimentology, Huronian Supergroup of Sudbury-Espanola Area	O.F.R.5107	
Kindle, E. D.	1936	Gold Occurrences of Ontario East of Lake Superior	G.S.C. Mem.192	
Moore, , E. S.	1929	Ore Deposits Near The North Shore of Lake Huron	O.D.M. AR38, pt.7	pp.39-46
O.G.S. & Mineral Resources Branch	1982	Mineral Potential Map of Ontario Southern Sheet Magnetic Compilation Map Geological Compilation Map 2197	O.F.R.5328	 1"=16 miles 1"=16 miles 1"=16 miles
Robertson, J. A.	1968 1976 1976 1966	Uranium and Thorium Deposits of Northern Ontario Geology of the Massey Area Victoria and Salter Townships Salter Township	O.D.M. MRC9 O.D.M. GR136 O.D.M. Map 2308 O.D.M. Map P.378	 1"=¼ mile 1"=¼ mile
Roscoe, S. M.	1969	Huronian Rocks and Uraniferous Conglomerates	G.S.C. Paper 68-40	205p.
Shklanka, R.	1969	Copper, Nickel, Zinc and Lead Deposits of Ontario	MRC12	pp.262.263,281
Thomson, J. E.	1960	Uranium and Thorium Deposits at the Base of the Huronian System in the District of Sudbury	O.D.M. GR1	
Yundt, S. E., et al	1983	Industrial Minerals of Ontario	O.G.S. Map P.2591	1:50,000

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		JOURNALS ARTICLES, THESES, TECHNICAL REPORTS		
Bain, G. W.	1927	Geology and Problems of the Webbwood Area, Canada. Ph.D. Col.	MP2	p.8
Canadian Dep't of Mines	1907-08	Report on the Mining and Metallurgical Industries of Canada - The Hermina Mining Co.		pp.396,397
Card, K. D.	1959	The Uranium Bearing Huronian Sediments of the Sudbury District. B.Sc. Queen's.	MP2	p.12
Casshyap, S. M.	1966	Sedimentary Petrography and Stratigraphy of the Huronian Rocks, South of Espanola, Ontario Pts. 1 and 2. Ph.D. Western.	Sudbury Theses File No.2	
Chandler, F. W., Young, G. M., Wood, J.	1909	Diaspore in Early Proterozoic Quartzites (Lorrain Formation) of Ontario	Can. J. Earth Sci. Vol.6	pp.337-346
Cooke, H. R. H.	1951	Sulphide Deposits West of Sudbury. B.Sc. Queen's	MP2	p.15
Johnson, J. M.	1960	A Discussion of the Provenance of the Huronian Ore Bearing Conglomerates of the Blind River Area. B.Sc., Queen's.	MP2	p.27
Lang, A. H. et al	1962	Canadian Deposits of Uranium and Thorium	G.S.C. Econ. Geol. Series 16 (2nd Ed.	p.263
Long, D. G. F.	1978	Depositional Environments of a thick Proterozoic sandstone; the (Huronian) Mississagi Formation of Ontario, Canada.	Can. J. Earth Sci., Vol.15	pp.190-206
Lindsay, D. A.	1969	Glacial Sedimentology of the Precambrian Gowganda Formation, Ontario, Canada.	Geol. Soc. Am. Bull., 80	pp.1685-1702

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
McLennan, S. M., Fryer, B. J., Young, G. M.	1979	The geo-chemistry of the carbonate-rich Espanola Formation (Huronian) with emphasis on rare earth elements	Can. J. Earth Sc., Vol.15	pp.230-239
Milne, V. G.	1958-59	The Non-radioactive Heavy Minerals of the Mississagi Conglomerate, Blind River, Ontario. MA, UT.	MP2	p.33
Palonen, P. A.	1971	Stratigraphy and Deformational Environmental of the Mississagi Fm., Ont., M.Sc., Calgary	Sudbury Theses File No.18	
Patchett, J. E.	1960	A Study of the Radioactive Minerals of the Uraniferous Conglomerates, Blind River Area. Ph.D., UT.	MP2	p.37
Quirke, T. T.	1915	Geology of Espanola District, Ontario. Ph.D., UC.	MP2	p.38
Schenk, P. E.	1965	Depositional Environment of the Gowganda Formation (Precambrian) at the south end of Lake Timagami, Ontario	J. Sed. Pet., Vol.135	pp.309-318
Siemiatkowska, K. M.	1970	Bibliography of Huronian Geology Covering the Region from Sault Ste. Marie to the Grenville Front.	Sudbury Theses File	
Thachuk, N. M.	1960	The Origin of the Gowganda Banded Argillite. B.A. Sc., U.T.	MP2	p.44
Wright, J. D.	1935	The Age of Some Granite Batholiths North of Lake Huron and the Genetic Relations of the Arsenical Gold Ores to the Keweenawan Granites. Ph.D., U.T.	MP2	p.48
Young, G. M.	1973	Origin of the carbonate-rich Early Proterozoic Espanola Formation; Ontario, Canada	Geol. Soc. Am. Bull., Vol.84	p.135-160

GDIF FORM NO.8

NOTES AND ADDENDA

Aerial Photographs Index

Scale 1"=¼ mile

Year	Roll	Line	Numbers
1959	60	4611	68,69
	17	4611	31-36
	17	4610	2-8
	16	4609	165-171
	16	4608	130-136

Ontario Ministry of Natural Resources

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 161

(Map 1 of 2)

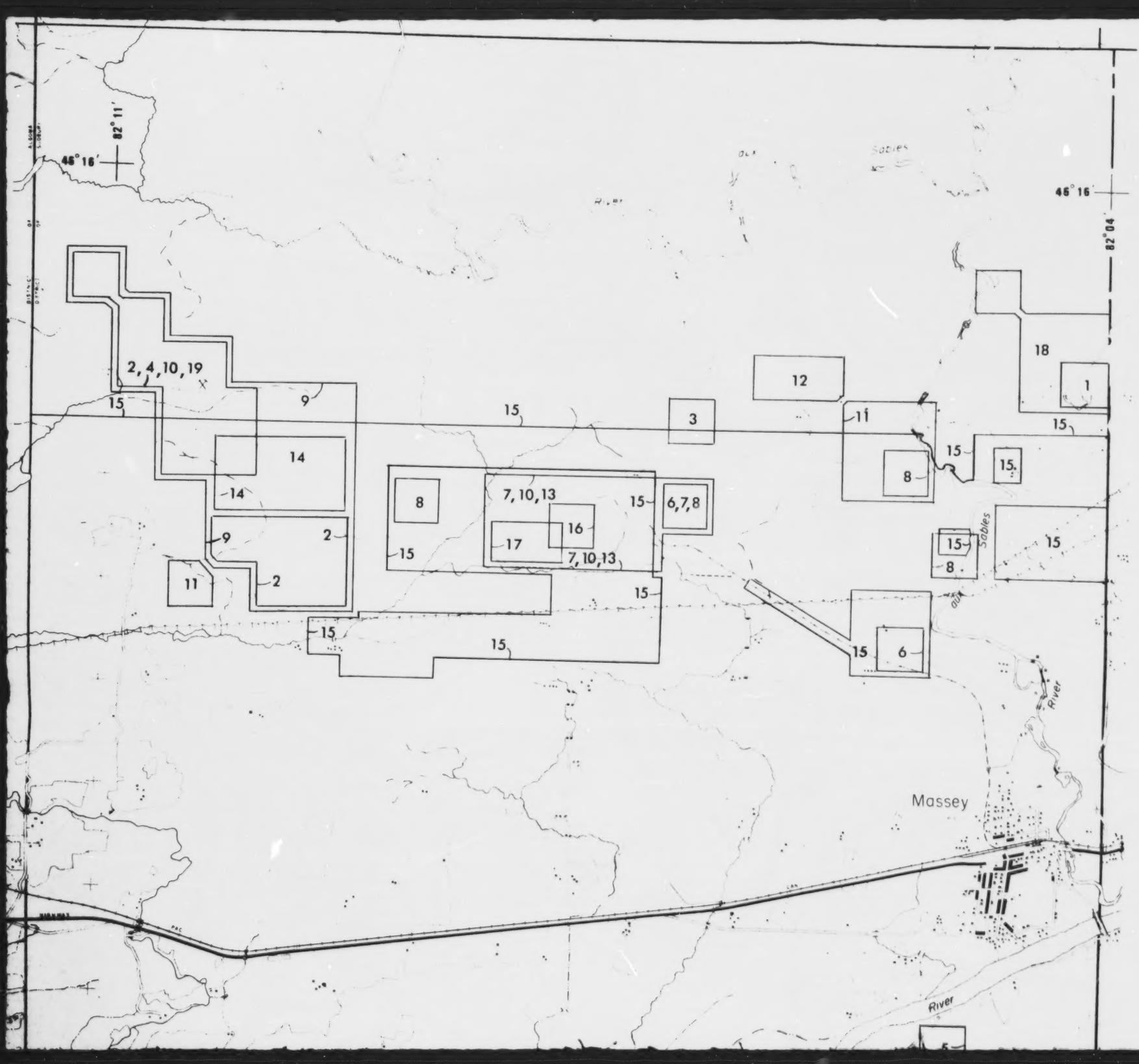
SALTER TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

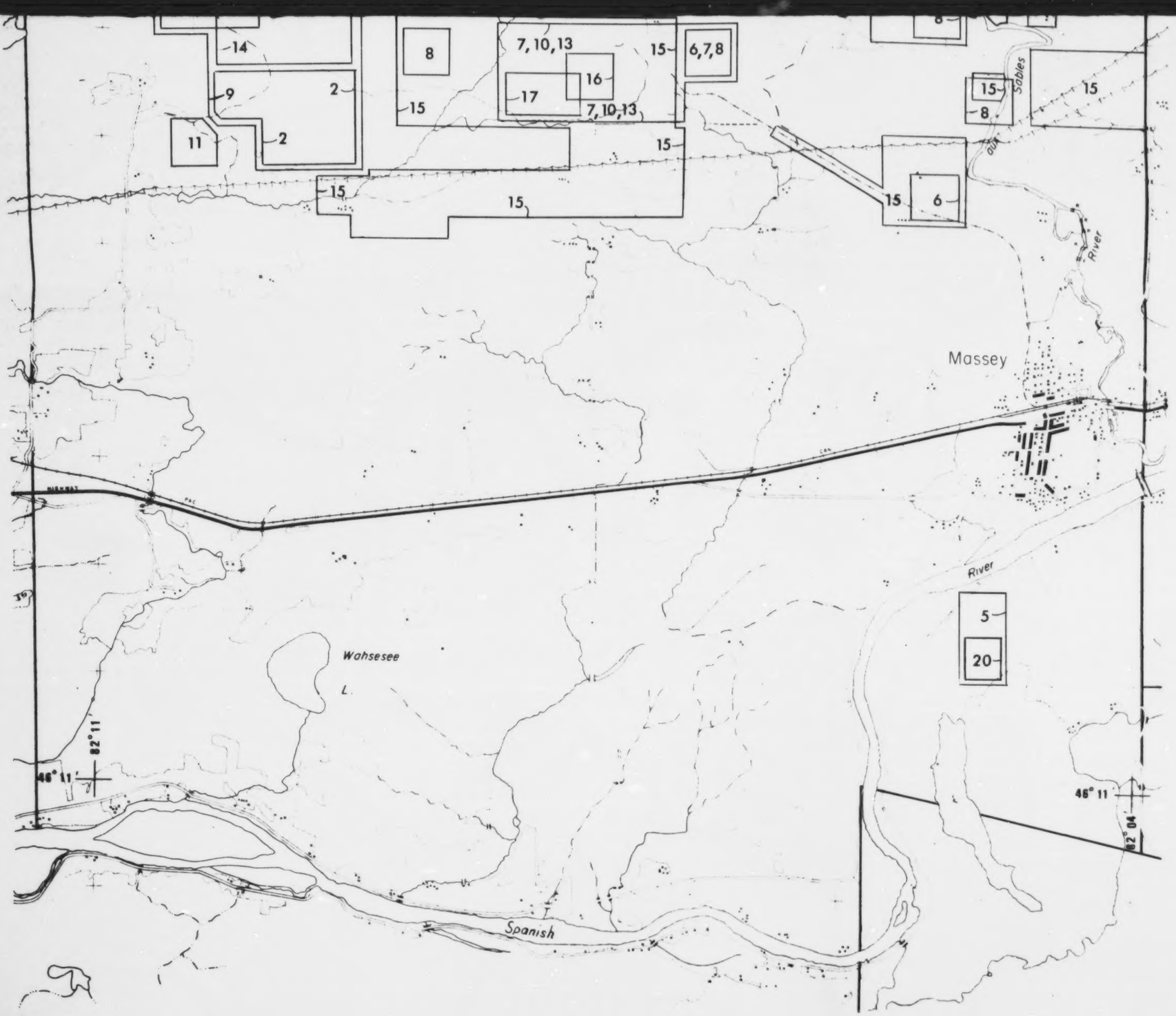
Mile 0 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre



EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined



EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined. See listing in text pages.

Small area of exploration.

DRILL HOLES

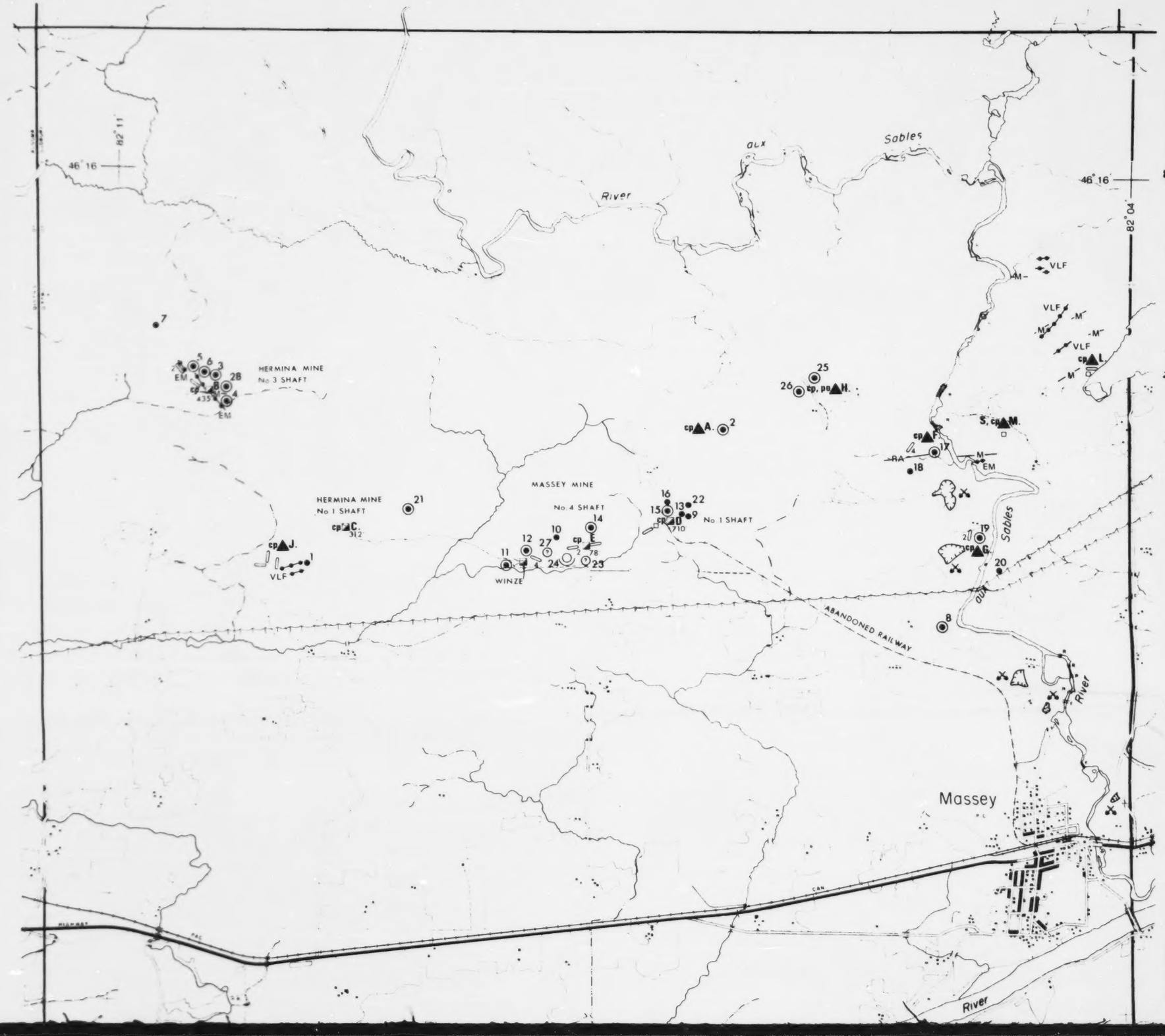
- Location of single drill hole, with reference number
- Location of closely spaced group of drill holes, with reference number
- Drill hole, exact location uncertain, with reference number.
- Property with underground drill holes in this general area, with reference number
- Property with drill holes which have not been plotted on map, with reference number
- Reverse Circulation Drill Hole; Churn drilling, with reference number

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- AM — Airborne Magnetometer Anomaly
- Airborne Electromagnetometer Anomaly Length of anomaly along flight line
- Airborne Electromagnetometer Anomaly. Location of anomaly along flight line
- Airborne Electromagnetometer Anomaly Conductor Axis: definite, probable, possible
- ARA — Airborne Radiometric Anomaly
- M — Ground Magnetometer Anomaly
- EM — Ground Electromagnetometer Anomaly (VL - Vertical Loop; HL - Horizontal Loop; VLF - Very low freq; Turam; JEM - Crone EM - 16)
- RA — Ground Radiometric Anomaly
- IP — Induced Polarization Anomaly
- SP — Self Potential Anomaly
- AFMAG — Audio-frequency magnetometer anomaly (total intensity)
- R — Resistivity Anomaly
- GR — Gravity Anomaly



Ministry of Natural Resources
Ontario

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 161

(Map **2** of **2**)

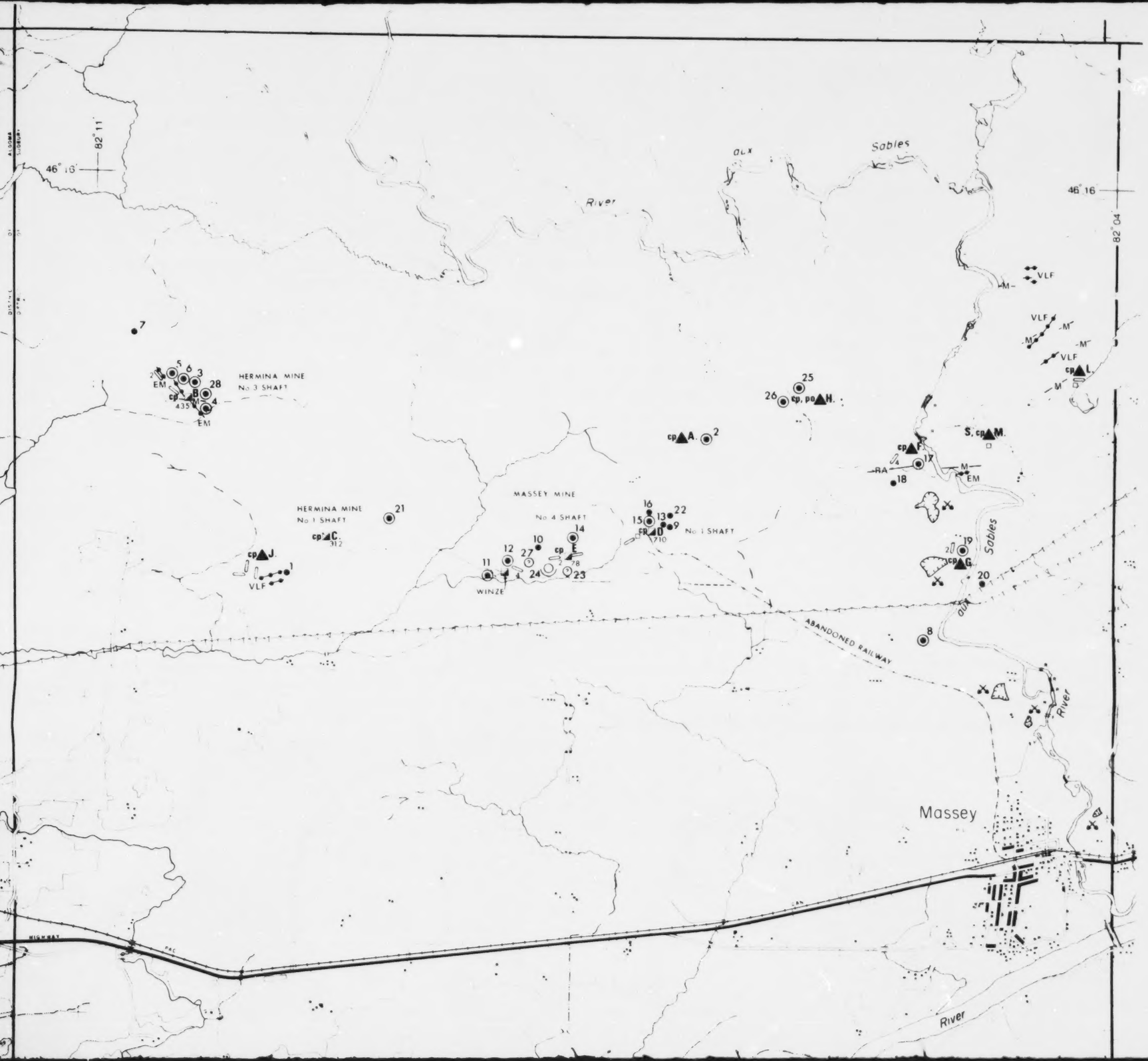
SALTER TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre



GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

GEOPHYSICAL ANOMALIES

- ☐ AM — Airborne Magnetometer Anomaly
- ☐ — Airborne Electromagnetometer Anomaly Length of anomaly along flight line
- ☐ — Airborne Electromagnetometer Anomaly. Location of anomaly along flight line
- ☐ — Airborne Electromagnetometer Anomaly Conductor Axis: definite, probable, possible
- ☐ ARA — Airborne Radiometric Anomaly
- ☒ M — Ground Magnetometer Anomaly
- ☒ EM — Ground Electromagnetometer Anomaly (VL - Vertical Loop; HL - Horizontal Loop; VLF - Very low freq; Turam; JEM - Crone EM - 16)
- ☒ RA — Ground Radiometric Anomaly
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- ☐ SP — Self Potential Anomaly
- ☐ AFMAG — Audio-frequency magnetometer anomaly (total intensity)
- ☐ R — Resistivity Anomaly
- ☐ GR — Gravity Anomaly
- ☐ —

MISCELLANEOUS DATA

- ☒ — Trenching, pit
- ☒ — Adit
- ☒ — Open pit
- ☒ — Multiple trenches, pits
- ☐ — Rock quarry
- ☒ — Sand and/or gravel pit
- ☐ —

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

MASSEY MINE

HERMINA MINE
No. 1 SHAFT

No. 4 SHAFT

No. 1 SHAFT

WINZE

VLF

ABANDONED RAILWAY

Sables River

Massey

Wahsesee L

Spanish River

46° 11'

82° 11'

cp, po A. I.

cp, po A. K.

cp, po A. N.

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- Ag ? A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized Float with reference letter